

FLOWCON

Self-compacting Concrete

ULTRA
CRETE

High Specification Concretes



High specification C40 concrete in a bag, ideal for applications with limited site access where bulk concrete cannot be delivered.

- Easily transportable
- Flowable
- Pre-blended cement for a consistent mix
- High compressive strength 55N/mm²

Applications

Flowcon is a general-purpose flowable concrete, pre-blended and ideal for most multi-purpose concreting applications such as patching or post erection. Flowcon is ideal where a quality mix is required without the waste and inconsistency of site mixed materials.

Technical

Flowcon is supplied in 25kg polythene bags and is manufactured from selected cements, sands, aggregates and chemical admixtures. The product requires only the addition of water and can be applied to depths of 20mm-200mm in one pass. Flowcon should not be used at temperatures below 5°C during application or initial set.

Preparation

Good concrete practice should be observed at all times. All surfaces should be free from oil, grease, dust or any other visible contaminants. Remove all loose particles and work on a sound substrate. Pre-soak the area with clean water prior to application to aid bond. Remove ponded water before applying the product. It is essential that repair edges are saw cut to a minimum depth of 20mm, feather edging is not recommended.

Priming

Remove any dust, dirt or loose debris, the surface area should then be thoroughly soaked with water until saturated. Ensure surplus or ponded water is removed before priming; mix components as per instructions and scrub well into the substrate. It is important that the primer slurry is not allowed to dry out.

Mixing

Each bag of Flowcon contains aggregate as well as a small pack of specialist cements. Add the entire contents of the pack and the aggregate to a standard free fall mixer. If the material is to be mixed by hand, empty contents onto a clean board and mix without adding the water for a short time to combine the cement and the aggregate. Because the aggregates contain moisture, water should be added gradually until the required consistency is achieved. Typically 1.5-3 litres of clean water should be sufficient for a 25kg bag of product to achieve the desired consistency. Note: It is essential that this product not be over-watered.

Placing

The mixed material should be applied as soon as possible after mixing. Tamp or finish as necessary avoiding excessive vibration as segregation of aggregate may occur.

Curing

Flowcon when used for patching requires curing.

Cleaning

Flowcon should be removed from tools and equipment with clean water immediately after use. Cured material can also be removed mechanically.

Storage

Store in closed original container at temperatures between 5°C and 30°C. Avoid frost. This product must be stored in unopened bags, clear of the ground in cool dry conditions and protected from excessive drafts. If stored correctly and used within 6 months of the date shown on the bag, the

activity of the reducing agent will be maintained and this product will contain, when mixed with water, no more than 0.0002% (2 ppm) soluble Chromium (VI) of the total dry weight of the cement.

Shelf life

Shelf life from date of manufacture in correct conditions for sealed packaging is 6 months. Note: The use of this product after the end of the declared storage period may increase the risk of an allergic reaction. High temperatures and high humidity will lead to a reduced shelf life.

Health, Safety and Environmental

Please ensure that appropriate PPE is used when preparing, mixing and applying products. Always wash your hands before consuming food and make sure that materials are kept safely out of reach of children and animals. Please dispose of packaging and waste responsibly and in accordance with local authority requirements. A full material datasheet relating to this product is available from instarmac.co.uk.

Quality assurance

All products are manufactured in a plant whose quality management system is certified / registered as being in conformity with BS EN ISO 9001, 14001, and OHSAS 18001. Our products are guaranteed against defective materials and manufacture, and will be replaced or money refunded if the goods do not comply with our promotional literature. We cannot however accept any liability arising from the application or use of our products because we have no direct or continuous control over where and how our products are used. All products are sold subject to our conditions of sale, copies of which may be obtained on request.

Technical data

Compressive strength (N/mm ²)*	
1 day	20.00
3 days	40.00
7 days	50.00
28 days	55.00
Workability	60 minutes
Set time	6 hours
Density	2300kg/m ³
Coverage	1m ² @ 12mm approx
Yield	12 litres approx
Colour	grey <i>As with all raw materials, colour variation may occur. This does not affect the consistency or characteristics of the product.</i>
Unit/packaging	25kg plastic bag (56 units per pallet)

*Depending on temperatures – tests carried out at 20°C. Cool temperatures retard, warm temperatures accelerate product performance.

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